CLAIMS

What is claimed is:

1. A process for removing residues from a structure, comprising the steps of:

providing an oxidant solution;

heating said oxidant solution to a temperature of at least about 60 degrees C; and

applying said oxidant solution to the structure.

- 2. The process of claim 1 wherein said oxidant solution comprises hydroxylamine.
- 3. The process of claim 1 wherein said applying said oxidant solution to the structure comprises spraying said oxidant solution onto the structure.
- 4. The process of claim 3 wherein said oxidant solution comprises hydroxylamine.

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- 5. The process of claim 1 wherein said heating said oxidant solution to a temperature of at least about 60 degrees C comprises heating said oxidant solution to a temperature of from about 60 degrees C to about 80 degrees C.
- 6. The process of claim 5 wherein said oxidant solution comprises hydroxylamine.
- 7. The process of claim 5 wherein said applying said oxidant solution to the structure comprises spraying said oxidant solution onto the structure.
- 8. The process of claim 7 wherein said oxidant solution comprises hydroxylamine.
- 9. A process for removing residues from a tungsten plug structure, comprising the steps of:

providing an oxidant solution; and

applying said oxidant solution to the tungsten plug structure.

- 10. The process of claim 9 wherein said oxidant solution comprises hydroxylamine.
- 11. The process of claim 9 wherein said applying said oxidant solution to the structure comprises spraying said oxidant solution onto the structure.
- 12. The process of claim 9 further comprising the step of heating said oxidant solution to a temperature of at least about 60 degrees C prior to said applying said oxidant solution to the tungsten plug structure.
- 13. A process for removing residues from a tungsten plug structure having at least one tungsten plug and a tungsten layer, comprising the steps of:

etching said tungsten layer from said tungsten plug structure;

providing an oxidant solution; and

removing the residues from the tungsten plug structure by applying said oxidant solution to the tungsten plug structure.

- 14. The process of claim 13 wherein said oxidant solution comprises hydroxylamine.
- 15. The process of claim 13 wherein said applying said oxidant solution to the tungsten plug structure comprises spraying said oxidant solution onto the tungsten plug structure.
- 16. The process of claim 15 wherein said oxidant solution comprises hydroxylamine.
- 17. The process of claim 13 further comprising the step of heating said oxidant solution to a temperature of at least about 60 degrees C prior to said applying said oxidant solution to the tungsten plug structure.
- 18. The process of claim 17 wherein said oxidant solution comprises hydroxylamine.

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- 19. The process of claim 17 wherein said applying said oxidant solution to the tungsten plug structure comprises spraying said oxidant solution onto the tungsten plug structure.
- 20. The process of claim 19 wherein said oxidant solution comprises hydroxylamine.